

Amendment and Response

Serial No.: 08/892,902

Confirmation No.: Unknown

Filed: 14 July 1997

For: MICROPOROUS INKJET RECEPTORS CONTAINING BOTH A PIGMENT MANAGEMENT SYSTEM
AND A FLUID MANAGEMENT SYSTEM

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¹⁷ 26. (AMENDED) The medium according to Claim ¹⁵ 22, wherein the porous membrane comprises a microporous membrane.

³⁰ 30. (AMENDED) The medium according to Claim 22, further comprising a silicon-based non-ionic surfactant.

³³ 33. (AMENDED) A method of making an inkjet receptor medium comprising:

- (a) preparing a pigment management system;
- (b) imbining the pigment management system into pores of a porous membrane of a synthetic polymer, wherein the pigment management system once imbined into pores of the porous membrane comprises a multivalent metal salt coating along the surfaces of the pores of the porous substrate; and
- (c) imbining a fluid management system into the pores of the porous membrane wherein the fluid management system comprises a surfactant.

³⁹ 39. (AMENDED) An inkjet receptor medium comprising a porous substrate comprising a multivalent metal salt coating and an anionic surfactant in contact with surfaces of pores of the porous substrate, and further comprising a pigmented ink image thereon.

²⁶ 44. (NEW) The inkjet receptor medium of Claim ¹⁵ 22, wherein the surfactant is an anionic surfactant.

³¹ 45. (NEW) The method of Claim ³⁰ 33, wherein the surfactant is an anionic surfactant.

⁴⁶ 46. (NEW) The inkjet receptor medium of Claim 1, wherein the size of the pores of the porous substrate are about 0.4 μ or greater.

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47. (NEW) The inkjet receptor medium of Claim 1, wherein the size of the pores of the porous substrate are about 0.75μ or greater.

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48. (NEW) The inkjet receptor medium of Claim 22, wherein the size of the pores of the porous membrane substrate are about 0.4μ or greater.

49. (NEW) The inkjet receptor medium of Claim 22, wherein the size of the pores of the porous substrate are about 0.75μ or greater.

50. (NEW) An inkjet receptor medium comprising:

a thermally induced phase separated microporous membrane of a synthetic polymer having a fluid management system and a pigment management system in contact with the surfaces of pores of the substrate, wherein the pigment management system comprises a multivalent metal salt coating along the surfaces of the microporous substrate, and wherein the fluid management system comprises a surfactant.

51. (NEW) A method of making an inkjet receptor medium comprising:

- (a) preparing a pigment management system;
- (b) imbibing the pigment management system into pores of a thermally induced phase separated microporous membrane of a synthetic polymer, wherein the pigment management system once imbibed into pores of the microporous membrane comprises a multivalent metal salt coating along the surfaces of the pores of the microporous substrate; and
- (c) imbibing a fluid management system into the pores of the microporous membrane wherein the fluid management system comprises a surfactant.

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52. (NEW) A method of using an inkjet receptor medium comprising:

- (a) placing an inkjet receptor medium of claim ¹⁵22 in an inkjet printer; and
- (b) printing an image on the medium using inkjet ink.

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